

MATERIAL SAFETY DATA SHEET

DATE PRINTED: 3/21/2002

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SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

MANUFACTURERS NAME
W.M. BARR & COMPANY, INC.ADDRESS
2105 Channel Ave.
Memphis, TN 38113 USAEMERGENCY TELEPHONE #1
901-775-0100EMERGENCY CONTACT
W.M. Barr Technical ServicesEMERGENCY INFORMATION
See Section 5 for additional Emergency InformationINVENTORY ITEM #
215CHEMICAL FORMULA
215PRODUCT NAME
KLEAN-CLEANREVISED BY
W.M. Barr Technical ServicesREVISION DATE
8/19/1997

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CARCINOGENICITY

SUBSTANCE DESCRIPTION	PERCENT	CAS#	NTP	ACGIH	OSHA	IARC
XYLENE	75- 80	1330-20-7	N	N	N	N
** ABOVE INGREDIENT CONSISTS OF THE FOLLOWING **						
ETHYL BENZENE	15- 20	100-41-4	N	N	N	N
XYLENE	80- 85	1330-20-7	N	N	N	N
METHYLENE CHLORIDE	15- 20	75-09-2	Y	Y	N	Y
ETHYLENE GLYCOL MONOBUTYL ETHER	5- 10	111-76-2	N	N	N	N

SECTION 3. REGULATORY INFORMATION

EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	REG.AGCY	U/M	TWA	STEL	CEIL	SKIN	PEL
XYLENE	ACGIH	PPM	100.00	150.00	N/E	N	N/E
	OSHA	PPM	100.00	150.00	N/E	N	100.00
ETHYL BENZENE	ACGIH	PPM	100.00	125.00	N/E	N	N/E
	OSHA	PPM	100.00	125.00	N/E	N	100.00
XYLENE	ACGIH	PPM	100.00	150.00	N/E	N	N/E
	OSHA	PPM	100.00	150.00	N/E	N	100.00
METHYLENE CHLORIDE	ACGIH	PPM	50.00	N/E	N/E	N	N/E
	OSHA	PPM	25.00	125.00	1000.00	N	N/E

OSHA PEAK CONCENTRATION FOR 8HR SHIFT:2000 PPM FOR 5 MIN. IN ANY 2 HRS.
 EMPLOYERS ARE REQUIRED TO CONDUCT INITIAL MONITORING OF AIRBORNE
 METHYLENE CHLORIDE, (MC), CONCENTRATIONS AND TO CONDUCT PERIODIC (MC)
 EXPOSURE MONITORING FOR ALL TASKS WHERE EMPLOYEE EXPOSURES ARE ABOVE
 ACTION LEVEL (12.5 PPM, 8-HR TWA) OR STEL. NTP-ANTICIPATED CARCINOGEN; IARC
 POSSIBLE CARCINOGEN (2B); ACGIH-SUSPECTED CARCINOGEN (A2); NIOSH-DEFINED
 CARCINOGEN. (MC) HAS CAUSED CANCER IN CERTAIN LABORATORY ANIMAL TESTS.
 RISK TO YOUR HEALTH DEPENDS ON LEVEL AND DURATION OF EXPOSURE.

ETHYLENE GLYCOL MONOBUTYL ETHER	ACGIH	PPM	25.00	N/E	N/E	Y	N/E
	OSHA	PPM	N/E	N/E	N/E	Y	50.00

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SECTION 3. REGULATORY INFORMATION
(CONTINUED)
-----**ADDITIONAL REGULATORY INFO**

The time weighted average (TWA) value described herein is a threshold limit value (TLV) as established by ACGIH. The permissible exposure limit (PEL) is a value established by OSHA.

CALIFORNIA (PROPOSITION #65)

WARNING: Using this product will expose you to Methylene Chloride, which is known to cause cancer.

SEC. 313 SUPPLIER NOTIFICATION

The following information must be included in all MSDS that are copied and distributed for this material.

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR 372):

SUBSTANCE DESCRIPTION	PERCENT BY WEIGHT (UPPER LIMIT)	CAS#
XYLENE	80	1330-20-7
ETHYL BENZENE	16	100-41-4
XYLENE	68	1330-20-7
METHYLENE CHLORIDE	20	75-09-2

CLEAN AIR ACT

This formula contains no known ozone depleting chemicals.

HAZARD COMMUNICATION STANDARD

This document is prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). This MSDS contains thirteen (13) sections.

The following effects and/or symptoms are not expected to be experienced by persons who use this product properly and according to ALL instructions, precautions, and warnings; however, should the product user experience ANY questionable effects or symptoms, the product user should immediately seek medical attention.

SECTION 4. HAZARDS IDENTIFICATION
-----**INHALATION ACUTE EXPOSURE EFFECTS**

Vapor harmful. May cause dizziness; headache; watering of eyes; irritation of respiratory tract; vomiting; weakness; drowsiness; nausea; numbness in fingers, arms and legs; hot flashes; narcosis; increase in carboxyhemoglobin levels, which can cause stress to the cardiovascular system; blood damage; arm, leg and chest pains; depression of the central nervous system; and liver damage. Severe overexposure may cause irregular or rapid heartbeat; unconsciousness; and death. Intentional misuse of this product by deliberately concentrating and inhaling can be harmful or fatal. Elevated carboxyhemoglobin levels can be additive to the increase caused by smoking and other carbon monoxide sources.

SKIN CONTACT ACUTE EXPOSURE EFFECTS

May be absorbed through the skin. May cause irritation; redness; defatting of skin; dermatitis; swelling; and tissue damage. May cause symptoms listed under inhalation and ingestion.

EYE CONTACT ACUTE EXPOSURE EFFECTS

This material is an eye irritant. May cause irritation; and temporary corneal injury. Vapors may also irritate eyes.

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SECTION 4. HAZARDS IDENTIFICATION
(CONTINUED)
-----**INGESTION ACUTE EXPOSURE EFFECTS**

Harmful or fatal if swallowed. May cause dizziness; headache; nausea; weakness; irritation to mouth, throat and stomach; vomiting; loss of coordination; gastrointestinal irritation; diarrhea; and changes in white blood cells. Liquid aspirated into lungs, during vomiting, may cause chemical pneumonia and systemic effects.

CHRONIC EXPOSURE EFFECTS

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. May cause skin irritation; permanent central nervous system changes; decreased response to visual and auditory stimulation; visual impairment or blindness; hallucinations; changes in blood; blood disorders; kidney damage; and liver damage.

MEDICAL CONDITIONS AGGRAVATED

Diseases of the blood, skin, liver, kidneys, lungs, cardiovascular system and respiratory system; alcoholism; and rhythm disorders of the heart.

PRIMARY ROUTE OF EXPOSURE

Inhalation, ingestion, and dermal.

SECTION 5. FIRST AID MEASURES
-----**INHALATION**

If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

SKIN CONTACT

Wash with soap and water.

EYE CONTACT

Flush with large quantities of water for at least 15 minutes and seek immediate medical attention.

INGESTION

DO NOT induce vomiting. Call your poison control center, hospital emergency room, or physician immediately.

NOTE TO PHYSICIAN

Adrenalin should never be given to a person overexposed to methylene chloride. This formula is registered with POISINDEX. Call your poison control center for further information.

SECTION 6. FIRE FIGHTING MEASURES

HAZARD RATING SOURCE	HMIS	NFPA
HEALTH	2	2
FLAMMABILITY	3	3
REACTIVITY	0	0
OTHER	G	NA

FLASH METHOD

Seta

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SECTION 6. FIRE FIGHTING MEASURES
(CONTINUED)

FLASH POINT

80.00 F 26.66 C

LOWER EXPLOSION LIMIT

1.10

GENERAL COMMENTS

OSHA FLAMMABILITY: Class IC

EXTINGUISHING METHOD

Use carbon dioxide, dry powder, or foam.

FIRE FIGHTING PROCEDURES

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

FIRE AND EXPLOSION HAZARDS

DANGER! FLAMMABLE. KEEP AWAY FROM HEAT, SPARKS, FLAME AND ALL OTHER SOURCES OF IGNITION. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and all other sources of ignition during use and until all vapors are gone. Beware of static electricity that may be generated by synthetic clothing and other sources. Contact with flames may generate toxic fumes.

SECTION 7. ACCIDENTAL RELEASE MEASURES

CLEAN-UP

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. SMALL SPILLS: take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable. LARGE SPILLS: dike far ahead of spill for later disposal.

For transportation related spills contact Chemtrec at 1-800-424-9300 for emergency assistance.

WASTE DISPOSAL

Dispose in accordance with applicable local, state and federal regulations.

SECTION 8. HANDLING AND STORAGE

STORAGE

Keep container tightly closed when not in use. Do not store near flames or at elevated temperatures. Once opened, product should be used within six months or discarded to avoid can deterioration.

HANDLING

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

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SECTION 9. TRANSPORT INFORMATION

TRANSPORTATION

For D.O.T. information, contact W.M. Barr Technical Services
Department.

SECTION 10. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROTECTION

Use only with adequate ventilation to prevent build-up of vapors.
Open all windows and doors. Use only with a cross ventilation of
moving fresh air across the work area. If strong odor is noticed or
you experience slight dizziness, headache, nausea, or eye-watering -
STOP - ventilation is inadequate. Leave area immediately.

RESPIRATORY PROTECTION

For OSHA controlled work place and other regular users - Use only
with adequate ventilation under engineered air control systems
designed to prevent exceeding appropriate TLV. For occasional use,
where engineered air control is not feasible, use properly
maintained and properly fitted NIOSH approved self-contained
breathing apparatus for chlorinated solvent vapors. A dust mask
does not provide protection against vapors.

SKIN PROTECTION

Wear impermeable gloves. Gloves contaminated with product should be
discarded. Promptly remove clothing that becomes soiled with product.

EYE PROTECTION

Safety glasses, chemical goggles or face shields are recommended
to safeguard against potential eye contact, irritation, or injury.
Contact lenses should not be worn while working with chemicals.

OTHER PROTECTION

Various application methods can dictate use of additional protective
safety equipment, such as impermeable aprons, etc., to minimize
exposure. A source of clean water should be available in the work
area for flushing eyes and skin. Do not eat, drink, or smoke in the
work area. Wash hands thoroughly after use. Before reuse,
thoroughly clean any clothing or protective equipment that has been
contaminated by prior use. Discard any clothing or other
protective equipment that cannot be decontaminated, such as gloves
or shoes.

SECTION 11. PHYSICAL AND CHEMICAL PROPERTIES

VOLATILE %

100.000
by weight

BOILING POINT

GT 104.00 F 40.00 C BOILING RANGE: 104 F - 340 F

VAPOR DENSITY (Air = 1.0)

Heavier than air

EVAPORATION RATE

Slower than ether

BULK DENSITY

6.350
lbs/gal at 75 F

pH FACTOR

N/E

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SECTION 11. PHYSICAL AND CHEMICAL PROPERTIES
(CONTINUED)
-----PHOTOCHEMICALLY REACTIVE
YES

MAX V.O.C.

758 grams per liter (excluding exempt solvents & water)

MAX VAPOR PRESSURE

(of the V.O.C.) 4mm Hg at 20 degrees C
-----SECTION 12. STABILITY AND REACTIVITY

INCOMPATIBILITIES

Incompatible with strong oxidizing agents; strong caustics; strong alkalis; oxygen; nitrogen peroxide; chemically active metals such as aluminum and magnesium; sodium; potassium; and nitric acid.

DECOMPOSITION

Thermal decomposition may produce hydrogen chloride; chlorine gas; and small quantities of phosgene.

POLYMERIZATION

Will not occur.

STABILITY

Stable.
-----SECTION 13. ADDITIONAL INFORMATION

IMPORTANT NOTE

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

LEGEND:

PPM = parts per million

MG/M3 = milligrams per cubic meter

N/E or NE = none established

GT = greater than

N/A or NA = not applicable

TCC = tag closed cup

TOC = tag open cup

PMCC = Pensky-Martens closed cup

IDLH = Immediately Dangerous to Life and Health

END OF MSDS